



F E D E R A L
S T U D E N T A I D

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FSA Modernization Partner

NSLDS II Reengineering
System Interface Detail Design:
Central Processing System
Student Demographic/Error File Interfaces
I-CPS-3

Version 2.0

November 08, 2002

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1 Central Processing System (CPS)

The interfaces between CPS and NSLDS II will be important components of FSA's student aid eligibility process. After an applicant has completed the Free Application for Federal Student Aid (FAFSA) and it has been processed in CPS, prescreening requests will be sent to NSLDS II. NSLDS II will process these requests and compile financial aid information currently stored within the database on that particular applicant. NSLDS II will also perform additional weekly postscreening eligibility checks and send results to CPS. The data received from NSLDS II will then be used to assist CPS in determining an applicant's eligibility to receive Title IV aid.

CPS will also send a file to NSLDS II daily that contains updated student demographic data.

The CPS interfaces include:

- Prescreening Applicant File (**See Document I-CPS-1**)
- Prescreening Applicant Results File (**See Document I-CPS-1**)
- Postscreening Results File (**See Document I-CPS-2**)
- Postscreening Error File (**See Document I-CPS-2**)
- Student Demographic File (**Section 1.2**)
- Student Demographic Error File (**Section 1.3**)

1.1 System Specifics

1.1.1 NSLDS II

| Item | Description |
|--|--|
| Production Platform (Vendor/Product Name/Version) | IBM/ Cluster 1600 Server/ 4 p-Series 660 Model 6M1 4 FastT500 Arrays |
| Operating System (Vendor/Product Name/Version) | Unix/AIX/V 5.1 Parallel Systems Support Program (PSSP) |
| DBMS (Vendor/Product Name/Version) | IBM/DB2 Universal Database (UDB)/Enterprise Extended v. 7.2 |
| Transmission Protocol | TCP/IP |
| Production System IP Address | TBD |
| Production System Location | Meriden, CT |
| Contracting Organization | Accenture – Modernization Partner |
| Developer Location | Modernization Partner Offices – Washington DC |

1.1.2 CPS

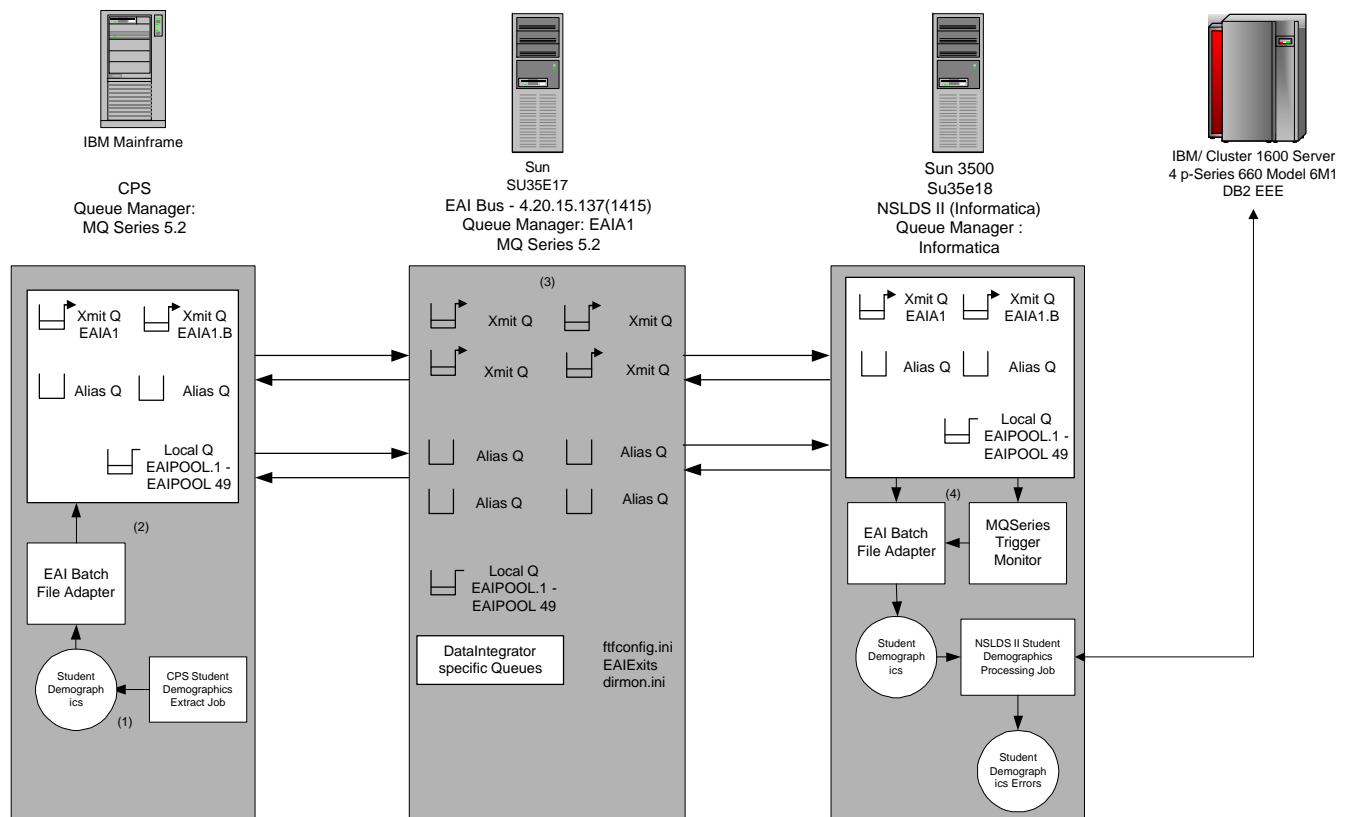
| Item | Description |
|--|-----------------|
| Production Platform (Vendor/Product Name/Version) | IBM/Mainframe |
| Operating System (Vendor/Product Name/Version) | IBM/OS390 |
| DBMS (Vendor/Product Name/Version) | IBM/DB2 |
| Transmission Protocol | TCP/IP |
| Production System IP Address | 4.20.2.158 |
| Production System Location | Meriden, CT |
| Contracting Organization | NCS |
| Developer Location | Iowa City, Iowa |

1.2 Student Demographic File

1.2.1 Interface Control Specifications

| | |
|--|---|
| Interface Name: | Student Demographic File |
| Interface Type/Direction: | Unidirectional, Batch Type |
| Interface Short Description: | <p>This document defines the processes utilized by CPS and NSLDS II to transport the CPS Student Demographic data via the "EAI BUS".</p> <p>CPS will send a file to NSLDS II daily that contains updated student demographic data. This file will be sent over the EAI Bus in flat file format. If errors are encountered by NSLDS II (Informatica) in processing the file, an Error File will be created and sent to CPS for processing.</p> |
| Requesting Application: or Source Application: | CPS is the source of the Student Demographic file |
| Responding Application: or Destination Application: | NSLDS II receives the Student Demographic File and responds with the Error File if needed |
| Detailed Technical Requirement References: | 5.024 |
| Interface Usage Frequency: | Daily |
| Interface Usage Volume: | 100,000 records average, 40mb file |
| Output Media: | Flat File in EBCDIC Format |
| Transmission Mechanism: | EAI Bus |

1.2.2 Interface Flow



1.2.3 Interface Flow Description

1. The CPS system will initiate a process to create the Student Demographics extract file
2. The EAI Batch File Adapter will move the file to the EAI BUS
3. The EAI BUS will route the file to NSLDS II
4. The EAI Batch File Adapter will move the file to NSLDS II
5. NSLDS II (Informatica) will process the Student Demographics file and write any errors to the Error File, and update the database.

Invocation of EAI Batch File (receive) adapter may invoke the NSLDS II (Informatica) Student Demographics Processing Job.

1.2.4 Source System Functional Specifications

| # | Responsibility |
|---|--|
| 1 | CPS will extract the Student Demographics data and save it as a flat file |
| 2 | The data extracted will be laid out as in section 1.2.8 Each record will consist of: One Header Record |

| | |
|---|---|
| | One or more Detail Records One Trailer Record |
| 3 | <p>File data elements are defined as character, numeric, or date fields, where:</p> <ul style="list-style-type: none"> • Character fields may contain letters, numbers, or blanks. • Numeric fields must only contain numbers. • Date fields must contain eight digits, be valid dates, and appear in the format CCYYMMDD (e.g., 19970131), where: <ul style="list-style-type: none"> – CC = 2 digits for century – YY = 2 digits for year – MM = 2 digits for month – DD = 2 digits for day <p>The following default values are used in the following types of fields:</p> <ul style="list-style-type: none"> • Character fields—must be filled with spaces. • Numeric fields—must be filled with zeroes. • Date fields—must be filled with zeroes. |
| 4 | An EAI batch file adapter will be supplied to initiate the file transfer from CPS to NSLDS II |
| 5 | <p>CPS will provide the EAI adaptor file transfer utility with the following input parameters:</p> <p>Input File Name – TBD</p> |

1.2.5 Destination System Functional Specifications

| # | Responsibility |
|---|--|
| 1 | The EAI BUS will deliver the Student Demographics data file to NSLDS II |
| 2 | <p>The EAI Adaptor takes the following information as input:</p> <p>Queue manager name - TBD</p> <p>Queue name - TBD</p> <p>Sync point counter - TBD</p> <p>Output file name – TBD</p> |
| 3 | The MQ Series Trigger Monitor will trigger the NSLDS II (Informatica) Student Demographics data processing job |
| 4 | Errors in the Error File that is generated as a result of processing the Student Demographics data are enumerated in section 1.2.7 |
| 5 | The Error File is returned to CPS via the EAI BUS |

1.2.6 Interface Assumptions

| # | Assumption |
|---|--|
| 1 | MQ Series Queue Manager is installed / configured for the NSLDS II / CPS environment |
| 2 | The EAI architecture will be configured to support the transfer of data from CPS to NSLDS II |

1.2.7 Error Messages

(Errors Detailed in Section 1.3.7)

1.2.8 File Layout

Header Record Layout

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------------|----------------|--------|-------|---|---|---------|
| Sort Student Social Security Number | 1 – 9 | 9 | Char. | Positional sort field used for sorting the Header Record to the top of the file | Must be equal to low values | NA |
| Data Provider Indicator | 10 – 10 | 1 | Char. | Indicator identifying this file as a CPS as student extract/ demographics file | Must be equal to 'C' | NA |
| Extract Date | 11 – 18 | 8 | Date | Date when the CPS extracted the records | Must be a valid date. Must be all numbers. CCYYMMDD format. | NA |
| Calendar Year | 19 – 22 | 4 | Num. | Calendar year for which the demographic data is being provided | Must be all numbers. Format CCYY | NA |
| Filler | 23 - 400 | 378 | Char. | Blank field to complete record length | Must be filled with spaces | NA |

Detail Record Layout

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------|----------------|--------|------|-------------|-------|---------|
|--------------|----------------|--------|------|-------------|-------|---------|

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---|-----------------------|---------------|-------------|--|---|----------------------------------|
| Student Original Social Security Number | 1-9 | 9 | Num. | The social security number of a Title IV Aid Applicant | Must be numeric | See Appendix C for Field Mapping |
| Student Current Social Security Number | 10-18 | 9 | Num. | The current social security number of a Title IV Aid Applicant. | Must be numeric | See Appendix C for Field Mapping |
| Student First Name | 19-30 | 12 | Char. | The first name of a Title IV Aid Applicant. CPS uses nine spaces and the remaining three for filler. | This field must be left-justified. May be blank. NSLDS treats blank as 'NFN'. | See Appendix C for Field Mapping |
| Student Last Name | 31-32 | 2 | Char. | The first two characters of the last name of a Title IV Aid Applicant. | This field must be left-justified. May be blank. NSLDS treats blank as 'NLN'. | See Appendix C for Field Mapping |
| Student Date of Birth | 33-40 | 8 | Date | The year, month, and day on which a Title IV Aid Applicant was born. | Must be a valid date in CCYYMMDD format. May be spaces. | See Appendix C for Field Mapping |
| Title | 41-41 | 1 | Char. | The title of the Title IV Aid Applicant. | Must be 'M' for male or 'F' for female. May be blank. | See Appendix C for Field Mapping |
| Citizenship | 42-42 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant is a U.S. citizen or not. | Must be 1 for yes, 2 for no, 3 for eligible non-citizen, or Blank if the citizenship is unknown | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---------------------------|-----------------------|---------------|-------------|---|---|----------------------------------|
| Alien Registration Number | 43-51 | 9 | Char. | Alien Registration Number of the Title IV Aid Applicant if applicable. | May be blank | See Appendix C for Field Mapping |
| BS Degree Flag | 52-53 | 2 | Char. | Indicator that reflects whether the Title IV Aid Applicant expects to receive their first bachelor's degree before July 1, 2002 or not (date changes each cycle). | Must be 'Y' for yes or 'N' for no. May be blank for no response. CPS uses one space and the remaining one space for filler. | See Appendix C for Field Mapping |
| Applicant Marital Status | 54-54 | 1 | Char. | Indicator of the Title IV Aid Applicant's marital status. | Must be '1' for not married, '2' for married, or '3' for separated. NSLDS converts to 'N', 'M', and 'S' respectively. Blank if unknown. | See Appendix C for Field Mapping |
| Born 24 year Flag | 55-55 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant was born before January 1, 1971* or not (date changes each cycle). | Must be '1' for yes, '2' for no, or blank if unknown. | See Appendix C for Field Mapping |
| Grd Prof Student Flag | 56-56 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant is a graduate or professional student. | Must be '1' for yes, '2' for no, or blank if unknown. | See Appendix C for Field Mapping |
| Student Is Married | 57-57 | 1 | Char. | Indicates whether the Title IV Aid Applicant is married. | Must be '1' for yes, '2' for no, or blank if unknown. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---------------------------------|----------------|--------|-------|--|---|----------------------------------|
| Ward Orphan Flag | 58-58 | 1 | Char. | Indicator of the Title IV Aid Applicant's is a ward of the court or both parents are dead. | Must be '1' for yes, '2' for no, or blank if unknown. | See Appendix C for Field Mapping |
| Veteran | 59-59 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant is a veteran of the U.S. Armed Forces or not. | Must be '1' for yes, '2' for No, or blank if unknown. | See Appendix C for Field Mapping |
| Have Dep | 60-60 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant's has legal dependents other than spouse. | Must be '1' for yes, '2' for no, or blank if unknown. | See Appendix C for Field Mapping |
| Have Child | 61-61 | 1 | Char | Indicator that reflects whether the Title IV Aid Applicant has children. | Must be '1' for yes, '2' for no, or blank if unknown. | See Appendix C for Field Mapping |
| Parent Marital Status | 62-62 | 1 | Char. | Indicator of the Title IV Aid Applicant's parents' marital status. | Must be '1' for married, '2' for single, '3' for separated/divorced, '4' for widowed, blank if unknown. | See Appendix C for Field Mapping |
| Parent State of Residence | 63-64 | 2 | Char. | The State code of the Title IV Aid Applicant's parents' state of legal residence. | Must be valid code from State Code Table. May be blank. | See Appendix C for Field Mapping |
| Parent Number of Family Members | 65-66 | 2 | Char. | The number of family members in Title IV Aid Applicant's parents' family. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|------------------------------------|-----------------------|---------------|-------------|---|---|----------------------------------|
| Parent Number of College Students | 67-67 | 1 | Char. | The number of family members in Title IV Aid Applicant's parents' family that are attending college at least half time. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student State of Residence | 68-69 | 2 | Char. | The State code of the Title IV Aid Applicant's student's state of legal residence. | Must be a valid code from State Code Table. | See Appendix C for Field Mapping |
| Student Number of Family Members | 70-71 | 2 | Char. | The number of family members in Title IV Aid Applicant's family. | May be blank. NSLDS converts to numeric | See Appendix C for Field Mapping |
| Student Number of College Students | 72-72 | 1 | Char. | The number of family members in Title IV Aid Applicant's family that are attending college at lease half time. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Tax File Status Code | 73-73 | 1 | Char. | Indicator of the Title IV Aid Applicant's parents' filing status. | 1 = Already filed 2 = Will file 3 = Will not file May be blank | See Appendix C for Field Mapping |
| Parent Income Tax Figures | 74-74 | 1 | Char. | Indicator of the Title IV Aid Applicant's parents' tax figures. | Must be '1' for Form 1040, '2' for Form 1040A/EZ/TEL, '3' for a Foreign tax return, '4' for a U.S. Territory tax return, or '5' Blank- means did not report | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-----------------------------------|-----------------------|---------------|-------------|---|---|----------------------------------|
| Parent Eligibility 1040A EZ Code | 75-75 | 1 | Char. | If parents have filed or will file a 1040, were they eligible to file a 1040A or 1040EZ. | 1 = Yes 2 = No Blank | See Appendix C for Field Mapping |
| Student Tax File Status Code | 76-76 | 1 | Char. | Indicator of the Title IV Aid Applicant's filing status. | 1 = Already filed 2 = Will file 3 = Will not file May be blank | See Appendix C for Field Mapping |
| Student Income Tax Figures | 77-77 | 1 | Char. | Indicator of the Title IV Aid Applicant's tax figures. | Must be '1' for Form 1040, '2' for Form 1040A/EZ/TEL, '3' for a Foreign tax return, '4' for a U.S. Territory tax return, or '5' Blank- means did not report | See Appendix C for Field Mapping |
| Student Eligibility 1040A EZ Code | 78-78 | 1 | Char. | If student has filed or will file a 1040, was the student eligible to file a 1040A or 1040EZ. | 1 = Yes 2 = No Blank | See Appendix C for Field Mapping |
| Parent Adjusted Gross Income | 79-84 | 6 | Char. | The Adjusted Gross Income (AGI) of the Title IV Aid Applicant's parents. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Adjusted Gross Income | 85-90 | 6 | Char. | The Adjusted Gross Income (AGI) of the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Amount of US Tax Paid | 91-96 | 6 | Char. | The amount of U.S. income tax paid by the Title IV Aid Applicant's parents. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------|-----------------------|---------------|-------------|---|--|----------------------------------|
| Student Amount of US Tax Paid | 97-101 | 5 | Char. | The amount of U.S. income tax paid by the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Father Earned Income | 102-107 | 6 | Char. | Income earned from work by the Title IV Aid Applicant's father. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Earned Income | 108-113 | 6 | Char. | Income earned from work by the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Mother Earned Income | 114-119 | 6 | Char. | Income earned from work by the Title IV Aid Applicant's mother. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Spouse Earned Income | 120-125 | 6 | Char. | Income earned from work by the Title IV Aid Applicant's spouse. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Worksheet A Total | 126-130 | 6 | Char. | Total amount from Worksheet A for the parent. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Worksheet A Total | 131-135 | 6 | Char. | Total amount from Worksheet A for the student. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Worksheet B Total | 136-140 | 6 | Char. | Total amount from Worksheet B for the parent. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|----------------------------------|-----------------------|---------------|-------------|---|---|----------------------------------|
| Student Worksheet B Total | 141-145 | 6 | Char. | Total amount from Worksheet B for the student. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Worksheet C Total | 146-150 | 6 | Char. | Total amount from Worksheet C for the parent. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Worksheet C Total | 151-155 | 6 | Char. | Total amount from Worksheet C for the student. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Number of Vet ED Benefit Month | 156-157 | 2 | Char. | The expected number of months the Title IV Aid Applicant will receive from veterans education benefits. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Amount of Monthly Vet ED Benefit | 158-160 | 3 | Char. | The expected monthly amount the Title IV Aid Applicant will receive from veterans education benefits. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| College One | 161-166 | 6 | Char. | The School code for the first college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Housing Code One | 167-167 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---------------------|-----------------------|---------------|-------------|---|---|----------------------------------|
| College Two | 168-173 | 6 | Char. | The School code for the second college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Housing Code Two | 174-174 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | See Appendix C for Field Mapping |
| College Three | 175-180 | 6 | Char. | The School code for the third college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Housing Code Three | 181-181 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | See Appendix C for Field Mapping |
| College Four | 182-187 | 6 | Char. | The School code for the fourth college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Housing Code Four | 188-188 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | See Appendix C for Field Mapping |
| College Five | 189-194 | 6 | Char. | The School code for the fifth college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Housing Code Five | 195-195 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. May be blank. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------|-----------------------|---------------|-------------|---|---|----------------------------------|
| College Six | 196-201 | 6 | Char. | The School code for the sixth college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric | See Appendix C for Field Mapping |
| Housing Code Six | 202-202 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. May be blank. | See Appendix C for Field Mapping |
| Dependency Override Indicator | 203-203 | 1 | Char. | Financial Aid Administrator has determined to override the applicant as independent. | Must be blank for no override, '1' for override to independent. | See Appendix C for Field Mapping |
| Pell Institution Number | 204-209 | 6 | Char. | The School code for the first of six schools, listed by the student, that participates in the Pell program. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| FAA Institution Number | 210-215 | 6 | Char. | The code for the school that made the FAA professional judgement. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Date Completed | 216-223 | 8 | Char. | The date that the Title IV Aid Applicant completed the application. | Must be a valid century, year, month, and day in CCYYMMDD format. May be blank. NSLDS converts to date format. | See Appendix C for Field Mapping |
| Age of Oldest Parent | 224-225 | 2 | Char. | The age of the Title IV Aid Applicant's oldest parent. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------------------------|-----------------------|---------------|-------------|---|--|----------------------------------|
| Parent Cash | 226-231 | 6 | Char. | The total amount of cash, savings, and checking accounts of the Title IV Aid Applicant's parents. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Cash | 232-237 | 6 | Char. | The total amount of cash, savings, and checking accounts of the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Inv Net Worth Amt | 238-243 | 6 | Char. | Parent's current net worth of investments. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Inv Net Worth Amt | 244-249 | 6 | Char. | Student's current net worth of investments. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Parent Bus Farm Net Worth Amt | 250-255 | 6 | Char. | Parent's current net worth of business and farm. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Student Bus Farm Net Worth Amt | 256-261 | 6 | Char. | Student's current net worth of business and farm. | May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Father High Grade | 262-262 | 1 | Char. | Indicator of the highest grade level completed by the Title IV Aid Applicant's father. | Must be '1' for elementary school, '2' for high school, '3' for college or beyond, or '4' for unknown. May be blank. | See Appendix C for Field Mapping |
| Mother High Grade | 263-263 | 1 | Char. | Indicator of the highest grade level completed by the Title IV Aid Applicant's mother. | Must be '1' for elementary school, '2' for high school, '3' for college or beyond, or '4' for unknown. May be blank. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|----------------------------|-----------------------|---------------|-------------|--|---|----------------------------------|
| High School Diploma GED | 264-264 | 1 | Char. | Indicator of whether or not the Title IV Aid Applicant earned a GED | Must be '1' for yes or '2' for no. May be blank. | See Appendix C for Field Mapping |
| Enrollment Status Summer 1 | 265-265 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the summer term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | See Appendix C for Field Mapping |
| Enrollment Status Fall | 266-266 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the fall term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | See Appendix C for Field Mapping |
| Enrollment Status Winter | 267-267 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the winter term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | See Appendix C for Field Mapping |
| Enrollment Status Spring | 268-268 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the spring term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | See Appendix C for Field Mapping |
| Enrollment Status Summer 2 | 269-269 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the second summer term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|------------------------|----------------|--------|-------|---|---|----------------------------------|
| Degree Code | 270-270 | 1 | Char. | Code for the Title IV Aid Applicant's degree or certificate. | Must be '1' for 1 st Bachelor's Degree; '2' for 2 nd Bachelor's; '3' for associate degree (at least two-year degree, occupational or technical program); '4' for Associates Degree (general educational or transfer program); '5' Certificate or Diploma for completing an occupational, technical or educational program of less than two years; '6' Certificate or Diploma for completing an occupational, technical or educational program of at least two years; '7' Teaching Credential Program; or '8' for Graduate or Professional Degree; '9' for Other/ Undecided. May be blank. | See Appendix C for Field Mapping |
| Grade Level in College | 271-271 | 2 | Char. | Indicator that reflects the number of the Title IV Aid Applicant's year in college. | Must be '1' for first year or never attended college, '2' for first year or attended college before, '3' for second year or sophomore, '4' for third year or junior, '5' for fourth year or senior, '6' for fifth year or other undergraduate, '7' for first year graduate or professional, '8' for second year graduate or professional, '9' for third year graduate or professional, '10' for beyond third year graduate or professional. May be blank. NSLDS converts to numeric. | See Appendix C for Field Mapping |
| Dependency Indicator | 272-272 | 1 | Char. | Indicator that shows whether the Title IV Aid Applicant is financially dependent on parent or legal guardian. | Must be: 'D' for valid dependent 'I' for invalid independent 'X' for rejected dependent 'Y' for rejected independent | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-----------------------------------|-----------------------|---------------|-------------|---|--|----------------------------------|
| Expected Family Contribution | 273-278 | 6 | Num. | The degree to which family of Title IV Aid Applicant is expected to contribute to the cost of attending school. | May be blank, which is treated as 0. | See Appendix C for Field Mapping |
| Social Security Indicator | 279-279 | 1 | Char. | Indicator that shows whether the Title IV Aid Applicant's SSN match was found at Social Security Administration | Must be 0, 1, 2, 3, 4, 5, 8, or 9 | See Appendix C for Field Mapping |
| Social Security Citizen Indicator | 280-280 | 1 | Char. | Indicates the Title IV Aid Applicant's citizen status | Must be A, B, C, D, E, F, N, *, or blank | See Appendix C for Field Mapping |
| Street Address | 281-315 | 28 | Char. | The address information of the student who applied for aid. This is the address CPS receives from the FAFSA and is where CPS mails the SAR. | May be blank. | See Appendix C for Field Mapping |
| City | 316-331 | 16 | Char. | The city information of the student who applied for aid. This is the city CPS receives from the FAFSA and is where CPS mails the SAR | May be blank. | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------------|----------------|--------|-------|--|------------------|----------------------------------|
| State | 332-333 | 2 | Char. | The state information of the student who applied for aid. This is the state CPS receives from the FAFSA and is where CPS mails the SAR | May be blank. | See Appendix C for Field Mapping |
| Zip Code | 334-338 | 5 | Char. | The zip code information of the student who applied for aid. This is the zip code CPS receives from the FAFSA and is where CPS mails the SAR | May be blank. | See Appendix C for Field Mapping |
| Father's SSN | 339-347 | 9 | Num. | The social security number of a Title IV Aid Applicant's father. | Must be numeric | See Appendix C for Field Mapping |
| Father's Last Name | 348-363 | 16 | Char | The last name of the Title IV Aid Applicant's father. | May be blank | See Appendix C for Field Mapping |
| Mother's SSN | 364-372 | 9 | Num. | The social security number of a Title IV Aid Applicant's mother. | Must be numeric | See Appendix C for Field Mapping |
| Mother's Last Name | 373-388 | 16 | Char | The last name of the Title IV Aid Applicant's mother. | May be blank | See Appendix C for Field Mapping |
| Subsidized Warning | 389-389 | 1 | Char | Subsidized Warning Flag. | 'Y' can be blank | See Appendix C for Field Mapping |
| Combined Warning | 390-390 | 1 | Char | Combined Warning Flag. | 'Y' can be blank | See Appendix C for Field Mapping |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------|----------------|--------|-------|---------------------------------------|-----------------------------|----------------------------------|
| Filler | 391-400 | 10 | Char. | Blank field to complete record length | Must be filled with spaces. | See Appendix C for Field Mapping |

Trailer Record Layout

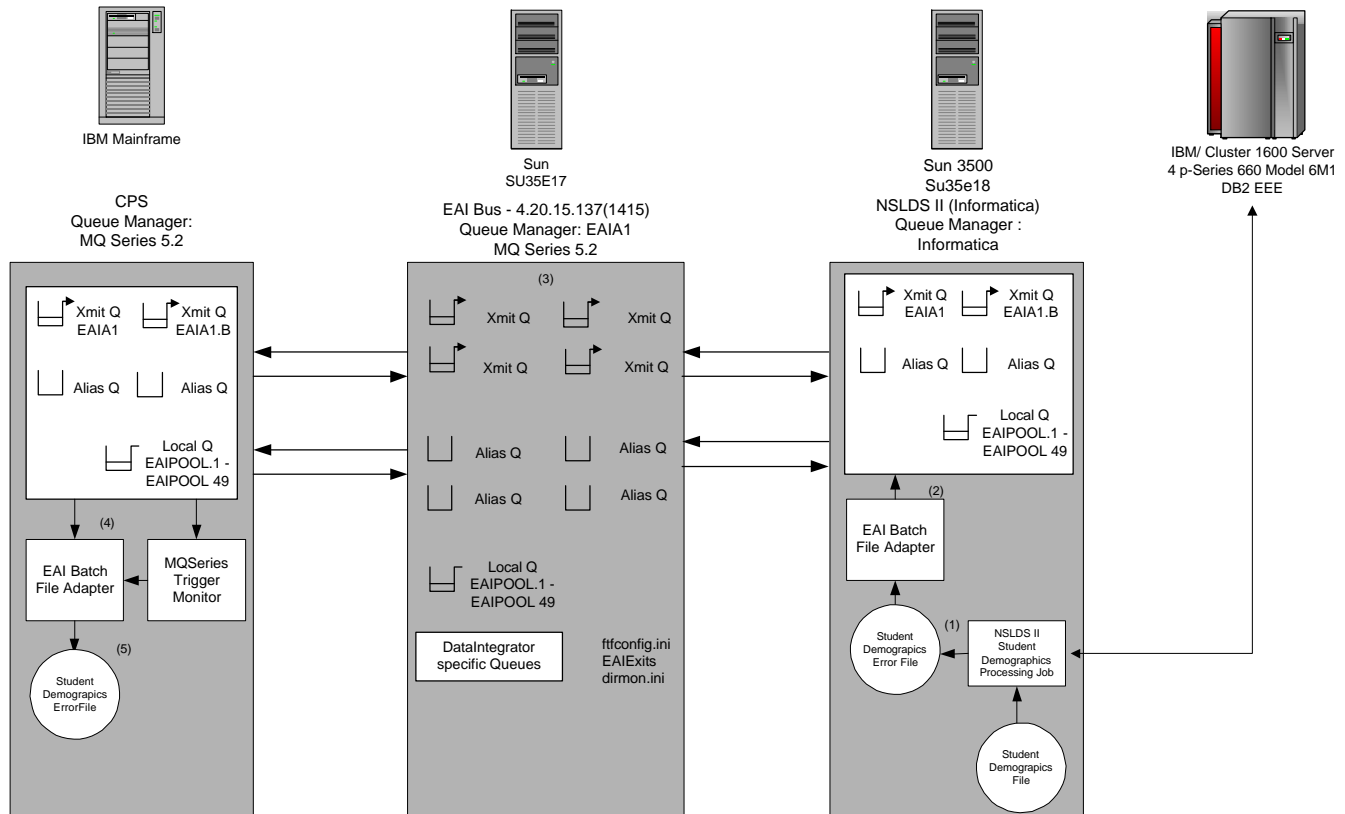
| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------------|----------------|--------|-------|--|-------------------------------|---------|
| Sort Student Social Security Number | 1 – 9 | 9 | Char. | Positional sort field used for sorting the Trailer Record to the bottom of the file. | Must be equal to high values. | NA |
| Number of Records | 10 – 18 | 9 | Num. | Number of detail records in this CPS student extract/demographics file. | NA | NA |
| Filler | 19 – 400 | 382 | Char. | Blank field to complete record length. | Must be filled with spaces. | NA |

1.3 Student Demographic Error File

1.3.1 Interface Control Specifications

| | |
|--|---|
| Interface Name: | Error File (Student Demographic Data) |
| Interface Type/Direction: | Unidirectional, Batch Type |
| Interface Short Description: | <p>This document defines the processes utilized by CPS and NSLDS II to transport the Error File via the "EAI BUS".</p> <p>CPS will send a file to NSLDS II daily that contains updated student demographic data. This file will be sent over the EAI BUS in flat file format. If errors are encountered by NSLDS II in processing the file, an Error File will be created and sent to CPS for processing.</p> |
| Requesting Application: or Source Application: | NSLDS II is the source of the Error File (Student Demographic Data) |
| Responding Application: or Destination Application: | CPS receives the Error File (Student Demographics Data) |
| Detailed Technical Requirement References: | 5.1.7.1 |
| Interface Usage Frequency: | Daily |
| Interface Usage Volume: | varies |
| Output Media: | Flat File in EBCDIC Format |
| Transmission Mechanism: | EAI Bus |

1.3.2 Interface Flow



1.3.3 Interface Flow Description

1. The NSLDS II system will process the Student Demographics file and create an Error File
2. The EAI Batch File Adapter will move the file to the EAI BUS
3. The EAI BUS will route the file to the CPS server
4. The EAI Batch File Adapter will move the file to the CPS server
5. The CPS Error File processing job will process the Student Demographics Error File

1.3.4 Source System Functional Specifications

| # | Responsibility |
|---|--|
| 1 | NSLDS II system will process the Student Demographics file and create an Errors File saved as a flat file |
| 2 | <p>The data extracted will be laid out as in section 1.3.8</p> <p>Each record will consist of:</p> <ul style="list-style-type: none"> One Header Record One Detail Record (1) and one or more Detail Records (2) One Trailer Record <p>The error record (record type 2) follows the detail record (type 1) containing errors in its fields. The number of error records (type 2) following the detail record (type 1) is equal to</p> |

| | |
|---|---|
| | the number of fields in error in each detail record. Therefore, multiple error records can be expected to follow each detail record (type 1) |
| | Student data in the Detailed Records is taken from the submittal file. |
| 3 | <p>File data elements are defined as character, numeric, or date fields, where:</p> <ul style="list-style-type: none"> • Character fields may contain letters, numbers, or blanks. • Numeric fields must only contain numbers. • Date fields must contain eight digits, be valid dates, and appear in the format CCYYMMDD (e.g., 19970131), where: <ul style="list-style-type: none"> – CC = 2 digits for century – YY = 2 digits for year – MM = 2 digits for month – DD = 2 digits for day <p>The following default values are used in the following types of fields:</p> <ul style="list-style-type: none"> • Character fields—must be filled with spaces. • Numeric fields—must be filled with zeroes. • Date fields—must be filled with zeroes. |
| 4 | An EAI batch file adapter will be supplied to initiate the file transfer from NSLDS II to CPS |
| 5 | <p>NSLDS II will provide the EAI adaptor file transfer utility with the following input parameters:</p> <p>Input File Name - TBD</p> |

1.3.5 Destination System Functional Specifications

| # | Responsibility |
|---|--|
| 1 | The EAI BUS will deliver the Student Demographics Error File data file to the CPS server |
| 2 | <p>The EAI Adaptor takes the following information as input:</p> <p>Queue manager name - TBD</p> <p>Queue name - TBD</p> <p>Sync point counter - TBD</p> <p>Output file name - TBD</p> |
| 3 | CPS staff are responsible for reviewing errors contained within the error file and including corrected records in the next file submission to NSLDS II |

1.3.6 Interface Assumptions

| # | Assumption |
|---|--|
| 1 | MQ Series Queue Manager is installed / configured for the NSLDS II / CPS environment |
| 2 | The EAI architecture will be configured to support the transfer of data from NSLDS II to CPS |

1.3.7 Error Messages

| Code | Message |
|-------------|--|
| 0001 | Sort Student Security Number on header <> Low Values |
| 0002 | Data Provider Indicator on header <> 'C' |
| 0003 | Invalid Extract Date |
| 0004 | Invalid Calendar Year |
| 0005 | Student Original Social Security Number is not numeric |
| 0006 | Student Current Social Security Number is not numeric |
| 0007 | Invalid Student Date of Birth |
| 0008 | Invalid Title |
| 0009 | Invalid Citizenship |
| 0010 | Invalid BS Degree Flag |
| 0011 | Invalid Applicant Marital Status |
| 0012 | Invalid Born 24 Year Flag |
| 0013 | Invalid Veteran Indicator |
| 0014 | Invalid Grd Prof Student Flag |
| 0015 | Invalid Student Is Married indicator |
| 0016 | Invalid Ward Orphan Flag |
| 0017 | Invalid Legal Dependents other than spouse Flag |
| 0018 | Invalid Parent Marital Status |
| 0019 | Invalid Parent State of Residence |
| 0020 | Parent Number of Family Members is not numeric |
| 0021 | Parent Number of College Students is not numeric |
| 0022 | Invalid Student State of Residence |
| 0023 | Student Number of Family Members is not numeric |
| 0024 | Student Number of College Students is not numeric |
| 0025 | Invalid Parent Income Tax Figures |
| 0026 | Invalid Student Income Tax Figures |
| 0027 | Parent Adjusted Gross Income is not numeric |
| 0028 | Student Adjusted Gross Income is not numeric |
| 0029 | Parent Amount of US Tax paid is not numeric |
| 0030 | Student Amount of US Tax paid is not Num. |

| Code | Message |
|-------------|---|
| 0031 | Father Earned Income is not numeric |
| 0032 | Student Earned Income is not numeric |
| 0033 | Mother Earned Income is not numeric |
| 0034 | Student Spouse Earned Income is not numeric |
| 0035 | Invalid Parent Tax File Status Code |
| 0036 | Invalid Parent Eligible 1040A-EZ Code |
| 0037 | Invalid Student Tax File Status Code |
| 0038 | Invalid Student Eligible 1040A-EZ Code |
| 0039 | Parent Worksheet A is not numeric |
| 0040 | Student Worksheet A is not numeric |
| 0041 | Parent Worksheet B is not numeric |
| 0042 | Student Worksheet B is not numeric |
| 0043 | Parent Worksheet C is not numeric |
| 0044 | Student Worksheet C is not numeric |
| 0045 | Amount of Monthly Vet ED Benefit is not numeric |
| 0046 | Number of Vet ED Benefit Month is not numeric |
| 0047 | College One code is not numeric |
| 0048 | Invalid Housing Code One |
| 0049 | College Two Code is not numeric |
| 0050 | Invalid Housing Code Two |
| 0051 | College Three Code is not numeric |
| 0052 | Invalid Housing Code Three |
| 0053 | College Four code is not numeric |
| 0054 | Invalid Housing Code Four |
| 0055 | College Five Code is not numeric |
| 0056 | Invalid Housing Code Five |
| 0057 | College Six Code is not numeric |
| 0058 | Invalid Housing Code Six |
| 0059 | Invalid Dependency Override Indicator |
| 0060 | Pell Institution Number is not numeric |
| 0061 | FAA Institution Number is not numeric |

| Code | Message |
|-------------|--|
| 0062 | Invalid Date Completed |
| 0063 | Age of Oldest Parent is not numeric |
| 0064 | Parent Cash is not numeric |
| 0065 | Student Cash is not numeric |
| 0066 | Parent Investment Net Worth Amount is not numeric |
| 0067 | Student Investment Net Worth Amount is not numeric |
| 0068 | Parent Business Net Worth Amount is not numeric |
| 0069 | Student Business Net Worth Amount is not numeric |
| 0070 | Parent Farm Net Worth Amount is not numeric |
| 0071 | Student Farm Net Worth Amount is not numeric |
| 0072 | Parent Business Farm Net Worth Amount is not numeric |
| 0073 | Parent Business Farm Net Worth Amount is not numeric |
| 0074 | Invalid Have Dependents other than spouse Flag |
| 0075 | Invalid Have Children you support Flag |
| 0078 | Invalid Father High Grade |
| 0079 | Invalid Mother High Grade |
| 0080 | Graduation HS Year Month is not numeric |
| 0081 | Invalid Graduation HS Year Month |
| 0082 | GED Year Month is not numeric |
| 0083 | Invalid GED Year Month |
| 0085 | Invalid Enrollment Status Summer 1 |
| 0086 | Invalid Enrollment Status Fall |
| 0087 | Invalid Enrollment Status Winter |
| 0088 | Invalid Enrollment Status Spring |
| 0089 | Invalid Enrollment Status Summer 2 |
| 0090 | Invalid Degree Code |
| 0093 | Invalid Grade Level in College |
| 0094 | Number of Dependent Child Care is not numeric |
| 0095 | Invalid Dependency Indicator |
| 0096 | Expected Family Contribution is not numeric |
| 0097 | College One Code was not found |

| Code | Message |
|-------------|--|
| 0098 | College Two Code was not found |
| 0099 | College Three Code was not found |
| 0100 | College Four Code was not found |
| 0101 | College Five Code was not found |
| 0102 | College Six Code was not found |
| 0103 | Pell Institution Number was not found |
| 0104 | FAA Institution Number was not found |
| 0105 | Student was not found matching search criteria |
| 0106 | Social Security Indicator Invalid |
| 0107 | Social Security Citizen Indicator Invalid |
| 0108 | Invalid High School GED Indicator |
| 0109 | Subsidized Warning Flag Invalid |
| 0110 | Combined Warning Flag Invalid |

1.3.8 File Layout

Header Record Layout

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------------|----------------|--------|-------|--|--|---------|
| Sort Student Social Security Number | 1 – 9 | 9 | Char. | Positional sort field used for sorting the Header Record to the top of the file. | Must be equal to low values. | NA |
| Data Provider Indicator | 10 – 10 | 1 | Char. | Indicator identifying this file as a CPS student extract/demographics file. | Must be equal to 'C'. | NA |
| Extract Date | 11 – 18 | 8 | Date | Date when the CPS extracted the records. | Must be a valid date. Must be all numbers. | NA |
| Calendar Year | 19 – 22 | 4 | Num. | Calendar year for which the demographic data is being provided. | Must be all numbers. Format CCYY | NA |
| Filler | 23 – 400 | 378 | Char. | Blank field to complete record length. | Must be filled with spaces. | NA |
| Record Type | 401 – 401 | 1 | Char. | Type of record to indicate the header. | Must be equal to value '0'. | NA |

Detail Record Layout (Type 1)

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------|----------------|--------|------|-------------|-------|---------|
|--------------|----------------|--------|------|-------------|-------|---------|

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---|----------------|--------|-------|--|--|---------|
| Student Original Social Security Number | 1-9 | 9 | Num. | The social security number of a Title IV Aid Applicant. | Must be numeric. | NA |
| Student Current Social Security Number | 10-18 | 9 | Num. | The current social security number of a Title IV Aid Applicant. | Must be numeric. | NA |
| Student First Name | 19-30 | 12 | Char. | The first name of a Title IV Aid Applicant. CPS uses nine spaces and the remaining three for filler. | This field must be left justified. May be blank. NSLDS treats blank as 'NFN'. | NA |
| Student Last Name | 31-32 | 2 | Char. | The first two characters of the last name of a Title IV Aid Applicant. | This field must be left justified. May be blank. NSLDS treats blank as 'NLN'. | NA |
| Student Date of Birth | 33-40 | 8 | Date | The year, month, and day on which a Title IV Aid Applicant was born. | Must be a valid date in CCYYMMDD format. May be spaces | NA |
| Title | 41-41 | 1 | Char. | The title of the Title IV Aid Applicant. | Must be 'M' for male or 'F' for female. May be blank. | NA |
| Citizenship | 42-42 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant is a U.S. citizen or not. | Must be 1 for yes, 2 for no, 3 for eligible non-citizen, or blank if the citizenship is unknown. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---------------------------|----------------|--------|-------|---|---|---------|
| Alien Registration Number | 43-51 | 9 | Char. | Alien Registration Number of the Title IV Aid Applicant if applicable | May be blank | NA |
| BS Degree Flag | 52-53 | 2 | Char. | Indicator that reflects whether the Title IV Aid Applicant expects to receive their first bachelor's degree before July 1, 2002 or not (date changes each cycle). | Must be 'Y' for yes or 'N' for no. May be blank for no response. CPS uses one space and the remaining one space for filler. | NA |
| Applicant Marital Status | 54-54 | 1 | Char. | Indicator of the Title IV Aid Applicant's marital status. | Must be '1' for not married, '2' for married, or '3' for separated. NSLDS converts to 'N', 'M', and 'S' respectively. Blank if unknown. | NA |
| Born 24 year Flag | 55-55 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant was born before January 1, 1971 or not (date changes each cycle). | Must be '1' for yes, '2' for no, or blank if unknown. | NA |
| Grd Prof Student Flag | 56-56 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant is a graduate or professional student. | Must be '1' for yes, '2' for no, or blank if unknown. | NA |
| Student Is Married | 57-57 | 1 | Char. | Indicates whether the Title IV Aid Applicant is married. | Must be '1' for yes, '2' for no, or blank. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---------------------------------|----------------|--------|-------|--|--|---------|
| Ward Orphan Flag | 58-58 | 1 | Char. | Indicator of the Title IV Aid Applicant's is a ward of the court or both parents are dead. | Must be '1' for yes, '2' for no, or blank if unknown. | NA |
| Veteran | 59-59 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant is a veteran of the U.S. Armed Forces or not. | Must be '1' for yes, '2' for no, or blank if unknown. | NA |
| Have Dep | 60-60 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant's has legal dependents other than spouse. | Must be '1' for yes, '1' for no, or blank if unknown. | NA |
| Have Child | 61-61 | 1 | Char. | Indicator that reflects whether the Title IV Aid Applicant has children. | Must be '1' for yes, '1' for no, or blank if unknown. | NA |
| Parent Marital Status | 62-62 | 1 | Char. | Indicator of the Title IV Aid Applicant's parents' marital status. | Must be '1' for married, '2' for single, '3' for separated/divorced, '4' for widowed. May be blank | NA |
| Parent State of Residence | 63-64 | 2 | Char. | The State code of the Title IV Aid Applicant's parents' state of legal residence. | Must be valid code from state code table. May be blank. | NA |
| Parent Number of Family Members | 65-66 | 2 | Char. | The number of family members in Title IV Aid Applicant's parents' family. | May be blank. NSLDS converts to numeric. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|------------------------------------|----------------|--------|-------|---|--|---------|
| Parent Number of College Students | 67-67 | 1 | Char. | The number of family members in Title IV Aid Applicant's parents' family that are attending college at lease half time. | May be blank. NSLDS converts to numeric. | NA |
| Student State of Residence | 68-69 | 2 | Char. | The State code of the Title IV Aid Applicant's student's state of legal residence. | Must be a valid code from State Code Table. | NA |
| Student Number of Family Members | 70-71 | 2 | Char. | The number of family members in Title IV Aid Applicant's family. | May be blank. NSLDS converts to numeric | NA |
| Student Number of College Students | 72-72 | 1 | Char. | The number of family members in Title IV Aid Applicant's family that are attending college at lease half time. | May be blank. NSLDS converts to numeric. | NA |
| Parent Tax File Status Code | 73-73 | 1 | Char. | Indicator of the Title IV Aid Applicant's parents' filing status. | 1 = Already filed 2 = Will file 3 = Will not file May be blank | NA |
| Parent Income Tax Figures | 74-74 | 1 | Char. | Indicator of the Title IV Aid Applicant's parents' tax figures. | Must be '1' for Form 1040, '2' for Form 1040A/EZ/TEL, '3' for foreign Tax Return, '4' for U.S. Territory Tax Ret, or '5' Blank means did not report. May be blank. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-----------------------------------|----------------|--------|-------|---|--|---------|
| Parent Eligibility 1040A EZ Code | 75-75 | 1 | Char. | If parents have filed or will file a 1040, were they eligible to file a 1040A or 1040EZ. | 1 = Yes 2 = No Blank | NA |
| Student Tax File Status Code | 76-76 | 1 | Char. | Indicator of the Title IV Aid Applicant's filing status. | 1 = Already filed 2 = Will file 3 = Will not file May be blank | NA |
| Student Income Tax Figures | 77-77 | 1 | Char. | Indicator of the Title IV Aid Applicant's tax figures. | Must be '1' for Form 1040, '2' for Form 1040A/EZ/TEL, '3' for foreign Tax Return, '4' for U.S. Territory Tax Ret, or '5' Blank means did not report. May be blank. | NA |
| Student Eligibility 1040A EZ Code | 78-78 | 1 | Char. | If student has filed or will file a 1040, will the student be eligible to file a 1040A or 1040EZ. | 1 = Yes 2 = No Blank | NA |
| Parent Adjusted Gross Income | 79-84 | 6 | Char. | The Adjusted Gross Income (AGI) of the Title IV Aid Applicant's parents. | May be blank. NSLDS converts to numeric. | NA |
| Student Adjusted Gross Income | 85-90 | 6 | Char. | The Adjusted Gross Income (AGI) of the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------|----------------|--------|-------|---|--|---------|
| Parent Amount of US Tax Paid | 91-96 | 6 | Char. | The amount of U.S. income tax paid by the Title IV Aid Applicant's parents. | May be blank. NSLDS converts to numeric. | NA |
| Student Amount of US Tax Paid | 97-101 | 5 | Char. | The amount of U.S. income tax paid by the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | NA |
| Father Earned Income | 102-107 | 6 | Char. | Income earned from work by the Title IV Aid Applicant's father. | May be blank. NSLDS converts to numeric. | NA |
| Student Earned Income | 108-113 | 6 | Char. | Income earned from work by the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | NA |
| Mother Earned Income | 114-119 | 6 | Char. | Income earned from work by the Title IV Aid Applicant's mother. | May be blank. NSLDS converts to numeric. | NA |
| Spouse Earned Income | 120-125 | 6 | Char. | Income earned from work by the Title IV Aid Applicant's spouse. | May be blank. NSLDS converts to numeric. | NA |
| Parent Worksheet A Total | 126-130 | 6 | Char. | Total amount from Worksheet A for the parent. | May be blank. NSLDS converts to numeric. | NA |
| Student Worksheet A Total | 131-135 | 6 | Char. | Total amount from Worksheet A for the student. | May be blank. NSLDS converts to numeric. | NA |
| Parent Worksheet B Total | 136-140 | 6 | Char. | Total amount from Worksheet B for the parent. | May be blank. NSLDS converts to numeric. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|----------------------------------|-----------------------|---------------|-------------|---|---|----------------|
| Student Worksheet B Total | 141-145 | 6 | Char. | Total amount from Worksheet B for the student. | May be blank. NSLDS converts to numeric. | NA |
| Parent Worksheet C Total | 146-150 | 6 | Char. | Total amount from Worksheet C for the parent. | May be blank. NSLDS converts to numeric. | NA |
| Student Worksheet C Total | 151-155 | 6 | Char. | Total amount from Worksheet C for the student. | May be blank. NSLDS converts to numeric. | NA |
| Number of Vet ED Benefit Month | 156-157 | 2 | Char. | The expected number of months the Title IV Aid Applicant will receive from veterans education benefits. | May be blank. NSLDS converts to numeric. | NA |
| Amount of Monthly Vet ED Benefit | 158-160 | 3 | Char. | The expected monthly amount the Title IV Aid Applicant will receive from veterans education benefits. | May be blank. NSLDS converts to numeric. | NA |
| College One | 161-166 | 6 | Char. | The school code for the first college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | NA |
| Housing Code One | 167-167 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------------|----------------|--------|-------|---|---|---------|
| College Two | 168-173 | 6 | Char. | The school code for the second college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | NA |
| Housing Code Two | 174-174 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | NA |
| College Three | 175-180 | 6 | Char. | The school code for the third college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | NA |
| Housing Code Three | 181-181 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | NA |
| College Four | 182-187 | 6 | Char. | The School code for the fourth college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | NA |
| Housing Code Four | 188-188 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. | NA |
| College Five | 189-194 | 6 | Char. | The School code for the fifth college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | NA |
| Housing Code Five | 195-195 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. May be blank. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------|----------------|--------|-------|---|---|---------|
| College Six | 196-201 | 6 | Char. | The School code for the sixth college that the Title IV Aid Applicant plans to attend. | May be blank. NSLDS converts to numeric. | NA |
| Housing Code Six | 202-202 | 1 | Char. | The code that reflects the housing status of a Title IV Aid Applicant. | Must be '1' for on campus, '2' for off campus, '3' for with parent, or '4' for with relatives other than parents. May be blank. | NA |
| Dependency Override Indicator | 203-203 | 1 | Char. | Financial Aid Administrator has determined to override the applicant as independent. | Must be blank for no override, '1' for override to independent. | NA |
| Pell Institution Number | 204-209 | 6 | Char. | The school code for the first of six schools, listed by the student, that participates in the Pell program. | May be blank. NSLDS converts to numeric. | NA |
| FAA Institution Number | 210-215 | 6 | Char. | The code for the school that made the FAA professional judgment. | May be blank. NSLDS converts to numeric. | NA |
| Date Completed | 216-223 | 8 | Char. | The date that the Title IV Aid Applicant completed the application. | Must be a valid century, year, month, and day in CCYYMMDD format. May be blank. NSLDS converts to date format. | NA |
| Age of Oldest Parent | 224-225 | 2 | Char. | The age of the Title IV Aid Applicant's oldest parent. | May be blank. NSLDS converts to numeric. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------------------------|----------------|--------|-------|---|--|---------|
| Parent Cash | 226-231 | 6 | Char. | The total amount of cash, savings, and checking accounts of the Title IV Aid Applicant's parents. | May be blank. NSLDS converts to numeric. | NA |
| Student Cash | 232-237 | 6 | Char. | The total amount of cash, savings, and checking accounts of the Title IV Aid Applicant. | May be blank. NSLDS converts to numeric. | NA |
| Parent Inv Net Worth Amt | 238-243 | 6 | Char. | Parent's current net worth of investments. | May be blank. NSLDS converts to numeric. | NA |
| Student Inv Net Worth Amt | 244-249 | 6 | Char. | Student's current net worth of investments. | May be blank. NSLDS converts to numeric. | NA |
| Parent Bus Farm Net Worth Amt | 250-255 | 6 | Char. | Parent's current net worth of business and farm. | May be blank. NSLDS converts to numeric. | NA |
| Student Bus Farm Net Worth Amt | 256-261 | 6 | Char. | Student's current net worth of business and farm. | May be blank. NSLDS converts to numeric. | NA |
| Father High Grade | 262-262 | 1 | Char. | Indicator of the highest grade level completed by the Title IV Aid Applicant's father. | Must be '1' for elementary school, '2' for high school, '3' for college or beyond, or '4' for unknown. May be blank. | NA |
| Mother High Grade | 263-263 | 1 | Char. | Indicator of the highest grade level completed by the Title IV Aid Applicant's mother. | Must be '1' for elementary school, '2' for high school, '3' for college or beyond, or '4' for unknown. May be blank. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|----------------------------|----------------|--------|-------|--|---|---------|
| High School Diploma | 264-264 | 1 | Char. | Indicator of whether or not Title IV Aid Applicant earned a GED | Must be '1' for yes or '2' for no. May be blank. | NA |
| Enrollment Status Summer 1 | 265-265 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the summer term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | NA |
| Enrollment Status Fall | 266-266 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the fall term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | NA |
| Enrollment Status Winter | 267-267 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the winter term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | NA |
| Enrollment Status Spring | 268-268 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the spring term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | NA |
| Enrollment Status Summer 2 | 269-269 | 1 | Char. | Indicator that reflects the Title IV Aid Applicant's enrollment status for the second summer term. | Must be '1' for full-time, '2' for 3/4 time, '3' for half time, '4' for less than half time, or '5' for not enrolled. May be blank. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|------------------------|----------------|--------|-------|---|--|---------|
| Degree Code | 270-270 | 1 | Char. | Code for the Title IV Aid Applicant's degree or certificate. | Must be '1' for 1 st Bachelor's Degree; '2' for 2 nd Bachelor's Degree; '3' for associate degree (at least two-year degree occupational or technical program); '4' Associates Degree (general educational or transfer program); '5' for Certificate or Diploma for completing an occupational, technical or educational program of less than two years; '6' for Certificate or Diploma for completing an occupational, technical or educational program of at least two years.; '7' Teaching Credential Program; or 'Graduate or Professional Degree; '9' Other/Undecided. May be blank. | NA |
| Grade Level in College | 271-271 | 2 | Char. | Indicator that reflects the number of the Title IV Aid Applicant's year in college. | Must be '1' for first year or never attended college, '2' for first year or attended college before, '3' for second year or sophomore, '4' for third year or junior, '5' for fourth year or senior, '6' for fifth year or other undergraduate, '7' for first year graduate or professional, '8' for second year graduate or professional, '9' for third year graduate or professional, '10' for beyond third year graduate or professional. May be blank. NSLDS converts to numeric. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-----------------------------------|----------------|--------|-------|---|--|---------|
| Dependency Indicator | 272-272 | 1 | Char. | Indicator that shows whether the Title IV Aid Applicant is financially dependent on parent or legal guardian. | Must be: 'D' for dependent 'I' for independent 'X' for rejected dependent 'Y' for rejected independent | NA |
| Expected Family Contribution | 273-278 | 6 | Num. | The degree to which family of Title IV Aid Applicant is expected to contribute to the cost of attending school. | May be blank, which is treated as 0. | NA |
| Social Security Indicator | 279-279 | 1 | Char. | Indicator that shows whether the Title IV Aid Applicant's SSN match was found at Social Security Administration | Must be 0, 1, 2, 3, 4, 8, or 9. | NA |
| Social Security Citizen Indicator | 280-280 | 1 | Char. | Indicates the Title IV Aid Applicant's citizen status | Must be A, B, C, D, E, F, N, *, or blank | NA |
| Street Address | 281-315 | 35 | Char. | The address information of the student who applied for aid. This is the address CPS receives from the FAFSA and is where CPS mails the SAR. | May be blank. | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------------|----------------|--------|-------|---|-----------------|---------|
| City | 316-331 | 16 | Char. | The city information of the student who applied for aid. This is the city CPS receives from the FAFSA and is where CPS mails the SAR. | May be blank. | NA |
| State | 332-333 | 2 | Char. | The state information of the student who applied for aid. This is the state CPS receives from the FAFSA and is where CPS mails the SAR. | May be blank. | NA |
| Zip Code | 334-338 | 5 | Char. | The zip code information of the student who applied for aid. This is the zip code CPS receives from the FAFSA and is where CPS mails the SAR. | May be blank. | NA |
| Father's SSN | 339-347 | 9 | Num. | The social security number of a Title IV Aid Applicant's father. | Must be numeric | NA |
| Father's Last Name | 348-363 | 16 | Char | The last name of the Title IV Aid Applicant's father. | May be blank | NA |
| Mother's SSN | 364-372 | 9 | Num. | The social security number of a Title IV Aid Applicant's mother. | Must be numeric | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------------|----------------|--------|-------|---|-----------------------------|---------|
| Mother's Last Name | 373-388 | 16 | Char | The last name of the Title IV Aid Applicant's mother. | May be blank | NA |
| Subsidized Warning | 389-389 | 1 | Char | Subsidized Warning Flag. | 'Y' can be blank | NA |
| Combined Warning | 390-390 | 1 | Char | Combined Warning Flag. | 'Y' can be blank | NA |
| Filler | 391-400 | 10 | Char. | Blank field to complete record length. | Must be filled with spaces. | NA |
| Record Type | 401-401 | 1 | Char. | Type of record to indicate the detail | Must be equal to value '1'. | NA |

Detail Record Layout (Type 2)

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------|----------------|--------|------|-------------|-------|---------|
|--------------|----------------|--------|------|-------------|-------|---------|

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|---|----------------|--------|-------|--|---|---------|
| Student Original Social Security Number | 1-9 | 9 | Num. | The social security number of a Title IV Aid Applicant | Must be numeric | NA |
| Student Current Social Security Number | 10-18 | 9 | Num. | The current social security number of a Title IV Aid Applicant | Must be numeric | NA |
| Student First Name | 19-30 | 12 | Char. | The first name of a Title IV Aid Applicant. CPS uses nine spaces and the remaining three for filler. | This field must be left-justified. May be blank; NSLDS treats blank as 'NLN'. | NA |
| Student Last Name | 31-32 | 2 | Char. | The first two characters of the last name of a Title IV Aid Applicant | This field must be left-justified. May be blank; NSLDS treats blank as 'NLN'. | NA |
| Student Date of Birth | 33-40 | 8 | Date | The year, month, and day on which a Title IV Aid Applicant was born | Must be a valid date in CCYYMMDD Format. May be spaces. | NA |
| Field Code | 41-43 | 3 | Char. | Field code describing the field in CPS file record | Must be one of the codes in Appendix B Look-Up Table used | NA |
| Error Code | 44-47 | 4 | Char. | Error code describing the field in error | Must be one of the codes in Section 1.3.7 Look-Up Table used | NA |
| Value of Field in Error | 48-59 | 12 | Char. | The actual field which failed to pass the edit check | Look-Up Table used | NA |

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|--------------|----------------|--------|-------|--|----------------------|---------|
| Filler | 60-400 | 341 | Char. | Blank field to complete record length | Filled with spaces | NA |
| Record Type | 401-401 | 1 | Char. | Record type to indicate the Error Record | Must be equal to '2' | NA |

Trailer Record Layout

| Data Element | Field Position | Length | Type | Description | Edits | Mapping |
|-------------------------------------|----------------|--------|-------|--|-------------------------------|---------|
| Sort Student Social Security Number | 1 – 9 | 9 | Char. | Positional sort field used for sorting the Trailer Record to the bottom of the file. | Must be equal to high values. | NA |
| Number of Records | 10 – 18 | 9 | Num. | Number of detail records in this CPS student extract/demographics file. | NA | NA |
| Filler | 19 – 400 | 382 | Char. | Blank field to complete record length. | Must be filled with spaces. | NA |
| Record Type | 401 – 401 | 1 | Char. | Type of record to indicate the trailer. | Must be equal to value '9'. | NA |

1.4 Appendix A

High-Level NSLDS II Student Demographic File Processing Logic:

For every detail record, validate current SSN and DOB. If first name is blank, set first name to be 'NFN'. If validations fail on current SSN and DOB, write the Record to Error file and pick up the next record. Otherwise, proceed to validate rest of the fields. When validations of fields pass, verify the existence of School OPE ID in NSLDS II database.

1.5 Appendix B

Field Code Name Cross Reference:

| Code | Field Name |
|------|--|
| 001 | Header Sort Student Social Security Number |
| 002 | Data Provider Indicator |
| 003 | Extract Date |
| 004 | Calendar Year |
| 005 | Student Original Social Security Number |
| 006 | Student Current Social Security Number |
| 007 | Student Date of Birth |
| 008 | Title |
| 009 | Citizenship |
| 010 | BS Degree Flag |
| 011 | Applicant Marital Status |
| 012 | Born 24 Year Flag |
| 013 | Veteran Indicator |
| 014 | Grd Prof Student Flag |
| 015 | Student Is Married |
| 016 | Ward Orphan Flag |
| 017 | Legal Dependents other than Spouse Flag |
| 018 | Parent Marital Status |
| 019 | Parent State of Residence |
| 020 | Parent Number of Family Members |
| 021 | Parent Number of College Students |
| 022 | Student State of Residence |
| 023 | Student Number of Family Members |
| 024 | Student Number of College Students |
| 025 | Parent Income Tax Figures |
| 026 | Student Income Tax Figures |
| 027 | Parent Adjusted Gross Income |

| Code | Field Name |
|-------------|----------------------------------|
| 028 | Student Adjusted Gross Income |
| 029 | Parent Amount of US Tax Paid |
| 030 | Student Amount of US Tax Paid |
| 031 | Father Earned Income |
| 032 | Student Earned Income |
| 033 | Mother Earned Income |
| 034 | Student Spouse Earned Income |
| 035 | Parent Tax File Status Code |
| 036 | Parent Eligible 1040A-EZ |
| 037 | Student Tax File Status Code |
| 038 | Student Eligible 1040A-EZ |
| 039 | Parent Worksheet A Total |
| 040 | Student Worksheet A Total |
| 041 | Parent Worksheet B Total |
| 042 | Student Worksheet B Total |
| 043 | Parent Worksheet C Total |
| 044 | Student Worksheet C Total |
| 045 | Amount of Monthly Vet ED Benefit |
| 046 | Number of Vet ED Benefit Month |
| 047 | College One |
| 048 | Housing Code One |
| 049 | College Two |
| 050 | Housing Code Two |
| 051 | College Three |
| 052 | Housing Code Three |
| 053 | College Four |
| 054 | Housing Code Four |
| 055 | College Five |
| 056 | Housing Code Five |
| 057 | College Six |
| 058 | Housing Code Six |

| Code | Field Name |
|-------------|--|
| 059 | Dependency Override Indicator |
| 060 | Pell Institution Number |
| 061 | FAA Institution Number |
| 062 | Date Completed |
| 063 | Age of Oldest Parent |
| 064 | Parent Cash |
| 065 | Student Cash |
| 066 | Parent Investment Net Worth Amount |
| 067 | Student Investment Net Worth Amount |
| 068 | Parent Business Net Worth Amount |
| 069 | Student Investment Net Worth Amount |
| 070 | Parent Farm Net Worth Amount |
| 071 | Student Farm Net Worth Amount |
| 072 | Parent Business Farm Net Worth Amount |
| 073 | Student Business Farm Net Worth Amount |
| 074 | Have Dependents other than spouse Flag |
| 075 | Have Children you support Flag |
| 078 | Father High Grade |
| 079 | Mother High Grade |
| 080 | Graduation HS Year Month |
| 081 | GED Year Month |
| 083 | Enrollment Status Summer 1 |
| 084 | Enrollment Status Fall |
| 085 | Enrollment Status Winter |
| 086 | Enrollment Status Spring |
| 087 | Enrollment Status Summer 2 |
| 088 | Degree Code |
| 091 | Grade Level in College |
| 092 | Number for Dependent Child Care |
| 093 | Dependency Indicator |
| 094 | Expected Family Contribution |

| Code | Field Name |
|-------------|--|
| 095 | Student Current SSN, First Name, Date of Birth |
| 096 | Social Security Indicator |
| 097 | Social Security Citizen Indicator |
| 098 | High School GED Indicator |
| 099 | Subsidized Warning Flag |
| 100 | Combined Warning Flag |

1.6 Appendix C

Student Demographics File Specifics:

(See Attached Matrix)